Development Formulation

Urban defence pacifying serum with CITYSTEM™ and PACIFEEL™(*) SE0018G

(*)Citystem™: Patent pending – Pacifeel™: WO 2015/140679 - WO 2002/047653

This velvety feel formulation offers the combination of **CITYSTEM ™** and **PACIFEEL™** to repair skin from external pollutant (PM, ozone, benzoapyrene) aggressions and to provide sensitive skin with a reinforced protection in the long term. In addition, the 100% natural emulsifiers **Crodesta™ F 160** and **Crodesta™ F 50** work together to reduce the irritancy and provide mildness. The combination of emollients **Pripure™ 3759**, a biomimetic skin lipid with moisturising properties and **Crodamol™ SS** impart silky dry feel. With this serum the pacified skin looks beautiful and feels Zen in the city.

Ingredient/INCI Name	Functionality	% w/w
Part A		
Water Deionised (Aqua)	-	To 100
Potassium Sorbate	Preservative	qs
Part B		
Zemea® (Propanediol) [3]	Humectant	3.00
Keltrol™ CG-SFT (Xanthan Gum) [4]	Rheology modifier	0.50
Supercol™ GF (Cyamopsis Tetragonoloba (Guar) Gum) [5]	Rheology modifier	0.15
Phenoxyethanol	Preservative	qs
Crodesta™ F-50 (Sucrose Distearate)[1]	O/W emulsifier	1.50
Crodesta™ F-160 (Sucrose Stearate)[1]	O/W emulsifier	0.50
Part C		
Crodamol™ SS (Cetyl Esters)[1]	Emollient	0.50
Pripure™ 3759 (Squalane)[1]	Emollient	5.00
Crodamol™ IPIS (Isopropyl Isostearate)[1]	Emollient	3.00
Part D		
Water Deionised (Aqua)	-	0.60
Lactic Acid	pH Adjuster	0.03
Part E		
CITYSTEM™ (Glycerin (and) Marrubium Vulgare Extract)[2]	Pollution defence active	2.00
Part F		
PACIFEEL™ (Butylene Glycol (and) Propanediol (and) Mirabilis Jalapa Extract)[2]	Soothing active for sensitive skin	3.00
Part G		
Fragrance [6]	Fragrance	0.10

Suppliers: **1: Croda 2: Sederma** 3: Dupont Tate & Lyle 4 : CP Kelco 5: Ashland 6: Expressions Parfumées

Procedure:

Weigh Part A. Weigh Part B and mix well. Add Part B to Part A with rotor stator stirring (s=2000 rpm) and heat to 75°C in bain-marie. Homogenise well. Heat Part C to 75°C in bain-marie and mix well. Pour Part C into Part A+B with rotor stator stirring (s=2800 rpm). Adjust pH to 5.50 +/-10 with Part D and mix well. Add Part E below 45°C. Homogenise well. Add Part F and homogenise well. Add Part G below 35°C. Homogenise well.

Appearance: Off-white cream pH: 5.50± 0.5; Viscosity: 40.000 cps ± 10% Sp.93, 2.5rpm, 1 min, 25°C, Brookfield DV-I Prime
Stability: 3 months at 4°C, 25°C, 40°C and 1 month at 50°C
Centrifugue 10min @ 3000rpm and 1 x -80ºC/+25ºC 24 hour freeze-thaw cycle and autoclave 20min @120°C

Zemea is a registered trademark of Dupont Tate & Lyle
Keltrol is a registered trademark of CP Kelco, a Huber Compagny
Supercol is a registered trademark of Ashland

This formulation was developed in France. Contact your local sales representative with enquiries as ingredient availability can vary by region.

www.sederma.com - sederma@sederma.fr

Asia Pacific pc-asia@croda.com
Europe, Middle East & Africa pc-europe@croda.com
Latin America marketinglatam@croda.com
North America marketing-usa@croda.com

Non-warranty
The information in this publication is believed to be accurate and is given in good faith, but no representation or warranty as to its completeness or accuracy is made. Suggestions for uses or applications are only opinions. Users are responsible for determining the suitability of these products for their own particular purpose. No representation or warranty, expressed or implied, is made with respect to information or products including, without limitation, warranties of merchantability, fitness for a particular purpose, non-infringement of any third party patent or other intellectual property rights including, without limit, copyright, trademark and designs. Any trademarks identified herein, unless otherwise noted, are trademarks of the Croda group of companies.
©2015 Croda International Plc

SEDERMA